ACTIVITY CE «CHERNIHIVVODOKANAL» DURING THE WAR

consequences of military actions and reconstruction of critical facilities, security measures from our expirience



Chernihiv was occupied on 24 February 2022





Chernihiv before and after shelling





How the residents of Chernihiv survived





Subject to full restoration:



10,5 км of sewerage networks





14,8 км

of water supply

networks

Artesian wells and water tanks destroyed by the russian occupiers





Help from an «Save the children International»



Reconstruction of an artesian well №3 on WPS-1







Water pumping station № 2



3 of 5 water pumping station were damaged in Chernihiv



The share WPS-2 of water supply in the pre-war period was 34%





Reconstruction of the WPS-2 in Chernihiv

Th	(<i>€ million)</i> 36,6	
1	Restoration of the functioning of WPS-2	12,1
11	Construction of the station for removing excess iron and manganese	24,5





Video «Reconstruction of the WPS-2 in Chernihiv»





Wastewater pumping station №3

Chernihivvodokanal has 23 wastewater pumping stations, 8 of which were damaged





Wastewater treatment plant in Chernihiv The wastewater treatment plant was built more than 60 years ago.

The estimated total cost of reconstruction of WWTP - € 35.6 million

Reconstruction of the air supply system

Reconstruction of aeration tanks

Reconstruction of grit chambers, primary and secondary settling tanks

Construction of biogas system









Specialized equipment destroyed by the russian occupiers





4 specialized equipment units of the Chernihivvodokanal were utterly destroyed:

14 more units motor transport suffered various degrees of damage



Specialized equipment received form partners

Туре	Q-ty	
truck crane	2	
water truck	2	
excavator	3	
manipulator	2	
special car	3	
teleinspection	1	
laboratory		
loader	1	
Σ	14	



Help from the Swiss Agency for Development and Cooperation (SDC)

Rausc-laboratory on the base Renault Trafic with equipment for diagnostics and inspection of water supply networks Ø100 – 800 mm





Help for CE «Chernihivvodokanal»

N⁰	Найменування	К-ть			
1	Generators (from 1 to 240 kW)	42			
2	Pumping equipment				
3	Specialized equipment				
4	Financing for project documentation				
5	Reconstruction of the water supply network				
6	Reconstruction of an artesian well 1				
7	Equipment and materials	277			
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Repair of bomb shelters of CE «Chernihivvodokanal»

The bomb shelter on the territory of CE «Chernihivvodokanal»

The bomb shelter on the territory of the WPS-2 (materials were bought, work was carried out by water utility workers)



- The air filtration system has been modernized
- The modern water purification system has been installed
- The conditions of stay of employees have improved



Safety measures for water utilities

Make artesian wells and street water collection columns in different locations of the city

Equipment of artesian wells and pumping stations with generators

Non-distribution of information about the location of the utility's production facilities (networks, pumping stations)







Safety measures for water utilities

The use of exclusively a special connection in communication

Distribution of special transport to different locations and production facilities

Arrangement of bomb shelters at the utility

Provision of fuel reserve (on average for 3-4 weeks)









Safety measures for people

Constantly change drinking water distribution points



Arrangement of yard toilets

in case of termination of centralized sewerage

Arrangement of yard toilets in case of termination of centralized

sewerage





Prohibition of using the geolocation function in mobile phones





Thank you for attention

Director

CE «Chernihivvodokanal»

Sergii Maliavko

smaliavko@water.cn.ua





water.cn.ua

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